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EXAMINER

MILIA, MARK R

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/916,395	<b>Applicant(s)</b> HARUNA ET AL.	
	<b>Examiner</b> Mark R. Milia	<b>Art Unit</b> 2622	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-56 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-56 is/are rejected.
- 7) ☒ Claim(s) 3 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 July 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## **DETAILED ACTION**

### ***Priority***

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 7/27/00. It is noted, however, that applicant has not filed a certified copy of the 2000-231381 application as required by 35 U.S.C. 119(b).

### ***Drawings***

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Fig. 2, reference characters (202) and (206). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and

informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Objections***

3. Claim 3 is objected to because of the following informalities: Claim 3 is dependent from claim 1 but examiner believes that the dependency was meant to be from claim 2 because claim 3 adds limitations regarding the certificate verifying method, in which claim 2 is directed towards. Claim 3 will thus be treated if it was dependent from claim 2. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6581044 to Alur in view of U.S. Patent No. 6008727 to Want et al.

Regarding claim 1, Alur discloses in a certificate issuing system comprising: a print terminal having print means for printing certificate data on a print form (see Fig. 1 (107)), input means for inputting personal certification ID (see Fig. 1 (104)), and print

terminal communication means (see Fig. 1, column 3 line 66-column 4 line 3, and column 4 lines 20-34), and a certificate issuer system (host 116) having certificate issuer communication means for performing communication with said print terminal (see Fig. 1 (114) and (118)), certificate storage means for storing said certificate data (see Fig. 1 (124)), and issue management storage means for storing certificate issue management data (see Fig. 1 (122)), a certificate issuing method comprising the steps of: sending said personal certification ID to said certificate issuer system from said print terminal through said print terminal communication means (see Fig. 1, column 4 lines 20-34, and column 5 lines 10-65), reading said certificate data in association with said personal certification ID from said certificate storage means of said certificate issuer system (see Fig. 1, column 4 lines 12-18, and column 5 lines 13-35), storing said certificate data to be issued in association with said issue management storage means of said certificate issuer system after personal certification ID is received at said certificate issuer system through said certificate issuer communication means (see Fig. 1 (124), column 4 lines 15-18, and column 5 lines 53-65), sending said read certificate data through said certificate issuer communication means to said print terminal (see Fig. 1, column 4 lines 28-35, and column 5 lines 61-65), and printing said certificate data on said print form, after said certificate data is received at said print terminal through said print terminal communication means (see column 4 lines 28-35 and column 5 lines 61-65).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 2, Alur discloses in certificate verifying system comprising a verification terminal (see Fig. 2, column 4 lines 40-60, and column 6 line 45-column 7 line 3), display means for displaying received data (see Fig. 2 (204) and column 6 lines 58-60), and verification terminal communication means (see Fig. 2), and a certificate issuer system having certificate issuer communication means for performing communication with said verification terminal (see Figs. 1 and 2 and column 4 lines 51-60, reference shows that host (116) must be in communication with the verification terminal (204) because it utilizes permutation maps (122), also a portable computer (204) is capable of connecting to network (114) for access to host (116) as is well known in the art), certificate storage means for storing said certificate data (Fig. 1 (124)) and issue management storage means for storing certificate issue management data (Fig. 1 (122)), a certificate verifying method comprising the steps of: sending an identification number to said certificate issuer system from said verification terminal through said verification terminal communication means, after an identification number is read by said verification terminal (see column 4 lines 40-60 and column 6 line 45-

column 7 line 3), reading said certificate data in association with said received ID number at said certificate issuer system with reference to said issue management storage means and said certificate storage means, and sending said certificate data to said verification terminal through said certificate issuer communication means (see Fig. 2 and column 6 line 45-column 7 line 3), and displaying said certificate data on said display means, after said certificate data is received through said verification terminal communication means (see column 6 lines 58-60).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 4, Alur discloses in a certificate issuer system comprising: certificate issuer communication means for performing communication with a print terminal (see Fig. 1), certificate storage means for storing certificate data (see Fig. 1 (124)), and issue management storage means for storing certificate issue management data (see Fig. 1 (122)), said certificate issuer system being capable of performing communication with said print terminal having print means for printing said certificate data on a print form, input means for inputting personal certification ID (see Fig. 1 (104)), and print terminal communication means (see Fig. 1, column 3 line 66-column 4

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line 3, and column 4 lines 20-34), a certificate issuing method comprising the steps of: receiving said personal certification ID through said certificate issuer communication means, after said personal certification ID is sent from said print terminal (see Fig. 1, column 3 line 66-column 4 line 3, column 4 lines 6-34, and column 5 lines 10-65), reading said certificate data in association with said personal certification ID from said certificate storage means (see Fig. 1, column 4 lines 12-18, and column 5 lines 13-35), storing said received ID number and said certificate data to be issued in association with said issue management storage means (see Fig. 1 (124) and column 4 lines 15-18), and sending said certificate data in association with said certificate ID, as data to be printed on said print form, to said print terminal through said certificate issuer communication means (see Fig. 1, column 4 lines 28-35, and column 5 lines 61-65).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 12, Alur discloses in a certificate issuer system comprising: certificate issuer communication means for performing communication with a verification terminal (see Figs. 1 and 2 and column 4 lines 51-60, reference shows that host (116) must be in communication with the verification terminal (204) because it utilizes



permutation maps (122), also a portable computer (204) is capable of connecting to network (114) for access to host (116) as is well known in the art), certificate storage means for storing certificate data (Fig. 1 (124)), and issue management storage means for storing certificate issue management data (Fig. 1 (122)), said certificate issuer system being capable of performing communication with said verification terminal having ID number reading means (see Figs. 1 and 2 (204) and (206)), display means for displaying received data (see Fig. 2 (204) and column 6 lines 58-60), and verification terminal communication means (see Fig. 2), a certificate verifying method comprising the steps of: receiving ID number through said certificate issuer communication means, after said ID number is sent from said verification terminal (see Figs. 1 and 2, reference shows that the ID number is verified by the use of the database and permutation maps located in the host (116) which is analogous to the certificate issuer of the claim limitation), reading said certificate data in association with said received ID number with reference to said issue management storage means and said certificate storage means (see Fig. 2, reference shows that the ID number is verified by the use of the database and permutation maps located in the host (116)), and sending said read certificate data to said verification terminal through said certificate issuer communication means so that said certificate data is display on said display means of said verification terminal (see Fig. 2 and column 6 lines 58-60).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 14, Alur discloses a certificate issuing system comprising: certificate issuer communication means performing communication with a print terminal having print means for printing certificate data on a print form (see Fig. 1, column 4 lines 15-35, and column 5 lines 10-65), input means for inputting personal certification ID (Fig. 1 (104)), and print terminal communication means (see Fig. 1), certificate storage means for storing said certificate data (see Fig. 1 (124)), issue management storage means for storing certificate issue management data (see Fig. 1 (122)), and control means for controlling said certificate issuer communication means, said certificate storage means and said issue management storage means (see Fig. 1 (118)), wherein, when said personal certification ID sent from said print terminal are received through said certificate issuer communication means (see column 4 lines 20-35), said control means performs control so as to read said certificate data in association with said personal certification ID from said certificate storage means, so as to store said received ID number and said certificate data to be issued in association with said issue management storage means, and so as to send said certificate data in association with said personal certification ID, as data to be printed on said print form, to said print terminal through said certificate issuer communication means (see column 5 lines 10-65).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 16, Alur discloses a certificate verifier system comprising: certificate verifier communication means performing communication with a verification terminal reading means for reading ID numbers (see Fig. 2, column 4 lines 40-60, and column 6 line 45-column 7 lines 3), display means for displaying received data (see Fig. 2 (204) and column 6 lines 58-60), and verification terminal communication means (see Fig. 2), certificate storage means for storing said certificate data (Fig. 1 (124)), issue management storage means for storing certificate issue management data (Fig. 1 (122)), and control means for controlling said certificate verifier communication means, said certificate storage means and said issue management storage means (see Fig. 2 (202) and (204)), wherein, when ID number sent from said verification terminal is received through said certificate verifier communication means, said control means performs control so as to read said certificate data in association with said received ID number from said issue management storage means and said certificate storage means, and controls said certificate verifier communication means to send said read certificate data to said verification terminal so that said certificate data is displayed on

said display means of said verification terminal (see Figs. 1 and 2, column 4 lines 40-60, and column 6 line 45-column 7 line 3).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 17, Alur discloses a certificate issuing machine comprising: a database for storing personal ID and identity papers, which are provided by an applicant, in association with personal data of said applicant (see Fig. 1 (124) and column 4 lines 15-18), a communication interface for receiving a request made by said applicant for applying for a certificate to which a personal identification number is attached, and for receiving data in association with an ID number attached to said certificate made by said request for applying for said certificate (see Fig. 1, column 4 lines 15-35, and column 5 lines 10-65), and a controller connected to said database and said communication interface so as to perform control such that said personal data in said database in association with said personal identification number and said identity papers is sent to said applicant for issuing said certificate through said communication interface in a form of said requested certificate (see Fig. 1 (118) and column 4 lines 28-35).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 20 and 29, Alur discloses a method for managing the printing of data in a data manager which communicates with a printer terminal, the printer terminal being capable of reading an ID number and printing data to paper, comprising the steps of: receiving the ID number sent from the printer (see column 4 lines 20-28) and associating the received ID number with the data to be printed (see column 5 lines 13-39).

Alur does not disclose expressly a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form.

Want discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 37, 41, and 45, Alur discloses a system of printing in a printer terminal which communicates with a data manager comprising: sending an ID number

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to the data manager (see 4 lines 20-35), receiving data for printing sent from the data manager (see Fig. 1 and column 4 lines 28-35), and printing the data for printing onto paper, wherein at least some of the data for printing are associated with the ID number in the data manager (see column 4 lines 28-35 and column 5 lines 61-65).

Alur does not disclose expressly reading a microchip ID of a microchip attached to a paper.

Want discloses reading a microchip ID of a microchip attached to a paper (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Alur & Want are combinable because they are from the same field of endeavor, use of identification numbers to execute desired procedures.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the electronic tag (microchip) attached to a print form, containing an identification number, that provides various digital services in response to the presentation of the identification number of the electronic tag as described by Want with the system of Alur as an additional identification number that can be easily verified.

The suggestion/motivation for doing so would have been to provide various digital services, such as that of obtaining a license, by use of an identification number that is easily verified and stored in the memory of the microchip as well as an associated database. Materials containing microchips with embedded identification numbers used to execute some sort of procedure or application are commonly used in the art, i.e. smart cards, and the use of a database to store information regarding a

certificate or the like, which is in turn used to verify such information, is also well known and commonly used in the art. Therefore it would have been obvious to use the electronic tag and associated identification number as described by Want as additional input information and ultimately verification information, stored in a database, with the system of obtaining a license via a network as described by Alur.

Therefore, it would have been obvious to combine Want with Alur to obtain the invention as specified in claims 1, 2, 4, 12, 14, 16, 17, 20, 29, 37, 41, and 45.

Regarding claim 3, Alur and Want disclose the system discussed in claim 2, and Alur further discloses wherein said certificate issuer communication means is capable of performing communication with a verification terminal ID number reading means for reading an ID number attached to a print form on which certificate data is printed (see Figs. 1 and 2 and column 6 line 45-column 7 line 3), display means for displaying received data (see column 6 lines 58-60), and verification terminal communication means (see Fig. 2), and wherein said certificate verifying method comprising the steps of: sending ID number to said certificate issuer system from said verification terminal through said verification terminal communication means, after said ID number is read by said reading means of said verification terminal (see column 4 lines 51-60 and column 6 line 45-column 7 line 3, reference shows that host (116) must be in communication with the verification terminal (204) because it utilizes permutation maps (122), also a portable computer (204) is capable of connecting to network (114) for access to host (116) as is well known in the art), reading said certificate data in

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association with said received ID number at said certificate issuer system with reference to said issue management storage means and said certificate storage means, and sending said certificate data to said verification terminal through said certificate issuer communication means (see column 6 line 45-column 7 line 3), and displaying said certificate data on said display means of said verification terminal, after said certificate data is received through said verification terminal communication means (see column 6 lines 58-60). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 5, Alur and Want disclose the system discussed in claim 4, and Alur further discloses wherein said certificate issuer communication means is capable of performing communication with a verification terminal having reading means for reading an ID number attached to a print form on which certificate data is printed (see Figs. 1 and 2 and column 6 line 45-column 7 line 3), display means for displaying received data (see column 6 lines 58-60), and verification terminal communication means (see Fig. 2), and wherein said certificate issuing method further comprising the steps of: receiving said ID number through said certificate issuer communication means, after said ID number is sent from said verification terminal (see column 4 lines 51-60 and column 6 line 45-column 7 line 3, reference shows that host (116) must be in communication with the verification terminal (204) because it utilizes permutation maps (122), also a portable computer (204) is capable of connecting to network (114) for



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access to host (116) as is well known in the art), reading said certificate data in association with said ID number received from said issue management storage means and said certificate storage means (see column 6 line 45-column 7 line 3), and sending said read certificate data to said verification terminal through said certificate issuer communication means so that said certificate data is displayed on said display means of said verification terminal (see column 6 line 45-column 7 line 3). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 6, Alur and Want disclose the system discussed in claim 4, and Alur further discloses wherein a personal identification number, as well as said personal certification ID, is sent from said print terminal (see column 4 lines 20-27 and column 5 lines 17-25). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 7, Alur and Want disclose the system discussed in claim 4, and Alur further discloses wherein, when said print terminal is to print out said received certificate data, said print terminal reads said ID number again, verifies whether said ID number read again is identical with said ID number sent already to said certificate issuer or not, and prints said certificate data on said print form after said verification is made (see column 5 lines 10-65). Want further discloses a microchip attached to a print form

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and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 8, Alur and Want disclose the system discussed in claim 4, and Alur further discloses wherein said personal certification ID is ID which is issued when an applicant for applying for a certificate registers said certificate data in said certificate issuer and which is stored in association with said certificate data (see column 4 lines 28-35).

Regarding claim 9, Alur and Want disclose the system discussed in claim 4, and Alur further discloses wherein said certificate issuer system further comprises a fee charging means, said fee charging means charging a fee when said certificate data is issued (see column 4 lines 9-11 and column 5 lines 40-42).

Regarding claim 10, Alur and Want disclose the system discussed in claim 5, and Alur further discloses sending a mail address, as well as said personal certification ID, from said print terminal (see column 4 lines 25-26), storing said sent mail address in said issue management storage means (see column 4 lines 15-18), and sending a notification that there is a verification request to said mail address stored in said issue management storage means, when said request for verification is made from said verification terminal (see column 6 line 45-column 7 line 3, reference shows that the user is notified of the result of the verification process, it is well known in the art to use various methods of notifying a user of such a process, one of which being notification via a mail address, therefore it would have been obvious to use such a method of

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notification as claimed). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 11 Alur and Want disclose the system discussed in claim 5, and Alur further discloses wherein, when a request for applying for one kind of certificate, as well as said personal certification ID, is sent from said print terminal, said certificate issuer system sends certificate data corresponding to said sent request (see column 4 lines 20-35 and column 5 lines 10-65). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 13, Alur and Want disclose the system discussed in claim 12, and Alur further discloses storing a mail address together with said certificate data in said certificate storage means (see column 4 lines 15-18), and sending a notification that there is a verification request to said stored mail address, when said request for verification is made from said verification terminal (see column 6 line 45-column 7 line 3, reference shows that the user is notified of the result of the verification process, it is well known in the art to use various methods of notifying a user of such a process, one of which being notification via a mail address, therefore it would have been obvious to use such a method of notification as claimed).

Regarding claim 15, Alur and Want disclose the system discussed in claim 14, and Alur further discloses wherein said certificate issuer communication means is capable of performing communication with a verification terminal having reading means for reading an ID number attached to a print form on which certificate data is printed (see Figs. 1 and 2 and column 6 line 45-column 7 line 3), display means for displaying received data (see column 6 lines 58-60), and verification terminal communication means (see Fig. 2), and wherein, when said ID number sent from said verification terminal is received through said certificate issuer communication means (see column 4 lines 51-60 and column 6 line 45-column 7 line 3, reference shows that host (116) must be in communication with the verification terminal (204) because it utilizes permutation maps (122), also a portable computer (204) is capable of connecting to network (114) for access to host (116) as is well known in the art), said control means performs control so as to read said certificate data in association with said received ID number from said issue management storage means and said certificate storage means, and controls said certification issuer communication means to send said read certificate data to said verification terminal so that said certificate data is displayed on said display means of said verification terminal (see column 6 line 45-column 7 line 3). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 18, Alur and Want disclose the system discussed in claim 17, and Alur further discloses a charging unit for storing a fee in accordance with

transmission of said personal data of said database in said certificate form correspondingly to said personal data of said applicant in said database, in conformity with a condition of said certificate issuing request (see Fig. 1 (120), column 4 lines 9-11, and column 5 lines 40-55).

Regarding claim 19, Alur and Want disclose the system discussed in claim 18, and Alur further discloses wherein data for requesting said corresponding fee stored in said database is sent to said communication interface in association with a verification request for verifying said issued personal data of said applicant (see column 5 lines 40-55).

Regarding claims 21 and 30, Alur and Want disclose the system discussed in claims 20 and 29, and Alur further discloses sending the data for printing to the print terminal (see Fig. 1 (107) and column 4 lines 28-35).

Regarding claims 22 and 31, Alur and Want disclose the system discussed in claims 20 and 29, and Alur further discloses storing the ID number and at least some of the data to be printed in a database of the data manager (see Fig. 1 (124) and column 4 lines 15-18). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 23 and 32, Alur and Want disclose the system discussed in claims 20 and 29, and Alur further discloses storing the ID number and information associating the ID number and at least some of the data for printing in a database of the

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data manager (see Fig. 1 (124) and column 4 lines 15-18). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 24 and 33, Alur and Want disclose the system discussed in claims 23 and 32, and Alur further discloses wherein the information associating the ID number and at least some of the data for printing comprises a personal certification ID (see column 4 lines 20-27). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 25 and 34, Alur and Want disclose the system discussed in claims 24 and 33, and Alur further discloses receiving the personal certification ID as sent from the printer (see column 5 lines 10-65), and retrieving data for printing based on the personal certification ID (see column 5 lines 10-65).

Regarding claim 26, Alur and Want disclose the system discussed in claim 20, and Alur further discloses wherein the data for printing are stored in an external printing database (see Fig. 1 (124)).

Regarding claims 27 and 35, Alur and Want disclose the system discussed in claims 21 and 30, and Alur further discloses charging a fee before sending the data for printing to the printer terminal (see Fig. 1 (120) and column 4 lines 9-11).

Regarding claims 28 and 36, Alur and Want disclose the system discussed in claims 22 and 31, and Alur further discloses storing a valid term for the data for printing within the ID number (see column 4 lines 22-23). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 38, 42, and 46, Alur and Want disclose the system discussed in claims 37, 41, and 45, and Alur further discloses reading the ID number again (see column 5 lines 10-65), before printing verifying whether the ID number read again is identical with the ID number sent to the data manager (see column 5 lines 10-65). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 39, 43, and 47, Alur and Want disclose the system discussed in claims 37, 41, and 45, and Alur further discloses sending a request for applying one type of printing data with the ID number to the data manager (see column 4 lines 20-35 and column 5 lines 10-65). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claims 40, 44, and 48, Alur and Want disclose the system discussed in claims 37, 41, and 45, and Alur further discloses sending a personal certificate ID and a personal identification number to the data manager (see column 4 lines 20-27 and column 5 lines 17-25). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 49, Alur and Want disclose the system discussed in claim 37, and Alur further discloses receiving the ID number sent from the verifying terminal (see Fig. 2), and retrieving the ID number from a database (see column 4 lines 51-53). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, column 10 lines 11-18, column 11 lines 41-43, and column 16 lines 20-23).

Regarding claim 50, Alur and Want disclose the system discussed in claim 37, and Alur further discloses sending the data associated with the ID number to the verifying terminal (see column 6 lines 45-55). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 51, Alur and Want disclose the system discussed in claim 37, and Alur further discloses a communication interface which receives the ID number sent



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from a verifying terminal which reads the ID number (see Fig. 2 (204) and (206)), a database which stores the ID number and associated data for printing (see Dig. 1 (124)), and a controller which retrieves the microchip ID from the database (see Fig. 1 (118)). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 52, Alur and Want disclose the system discussed in claim 51, and Alur further discloses wherein the communication interface sends the data associated with the ID number to the verifying terminal (see column 6 lines 45-55). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

Regarding claim 53, Alur and Want disclose the system discussed in claim 37, and Alur further discloses sending the ID number to the verifying data manager (see Fig. 2). Want further discloses reading the microchip ID of the microchip from the paper (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, column 10 lines 11-18, column 11 lines 41-43, and column 16 lines 20-23).

Regarding claim 54, Alur and Want disclose the system discussed in claim 53, and Alur further discloses receiving the data associated with the ID number at the verifying terminal (see Fig. 2), and displaying the received data associated with the ID

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number (see column 6 lines 58-60). Want further discloses reading the microchip ID of the microchip from the paper (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, column 10 lines 11-18, column 11 lines 41-43, and column 16 lines 20-23).

Regarding claim 55, Alur and Want disclose the system discussed in claim 37, and Alur further discloses a reader which reads the ID number (see Fig. 2 (204), (206), and (208)), and a communication interface which sends the ID number to a verifying manager (see column 6 line 45-column 7 line 3). Want further discloses a reader which reads the microchip ID of the microchip from the paper (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, column 10 lines 11-18, column 11 lines 41-43, and column 16 lines 20-23).

Regarding claim 56, Alur and Want disclose the system discussed in claim 55, and Alur further discloses wherein the communication interface receives the data associated with the ID number from the verifying manager, and displays the received data for verification (see Fig. 2 and column 6 line 45-column 7 line 3). Want further discloses a microchip attached to a print form and microchip reading means for reading microchip ID in a microchip attached to a print form (see Figs. 1 and 5 (20), column 6 lines 36-48 and 53-58, column 8 line 66-column 9 line 6, and column 11 lines 41-43).

**Conclusion**

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. To further show the state of the art refer to the Notice of References Cited hereby attached.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached at (571) 272-7402. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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